

Virginia Grade Level Alternative Worksheet

Grade 7 Mathematics

Student's Name: _____ State Testing Identifier: _____

Check all that apply:

_____ Assigned scores have been entered into the online VGLA System.

_____ Assigned scores have been verified and submitted for final scoring in the online VGLA System

An "X" under No Evidence
represents a Total of 0.

Reporting Category	SOL #	Specific Virginia Standard of Learning	Demonstrated (0 to 4)	Inferred (0 to 4)	No Evidence (0)	Total (0 to 4)
RC 1	7.1	The student will compare, order, and determine equivalent relationships between fractions, decimals, and percents, including scientific notation for numbers greater than 10.				
RC 1	7.2	The student will simplify expressions that contain rational numbers (whole numbers, fractions, and decimals) and positive exponents, using order of operations, mental mathematics, and appropriate tools.				
RC 1	7.3	The student will identify and apply the following properties of operations with real numbers: a) the commutative and associative properties for addition and multiplication; b) the distributive property; c) the additive and multiplicative identity properties; d) the additive and multiplicative inverse properties; and e) the multiplicative property of zero.				
RC 2	7.4	The student will a) solve practical problems using rational numbers (whole numbers, fractions, decimals) and percents; and b) solve consumer-application problems involving tips, discounts, sales tax, and simple interest.				
RC 2	7.5	The student will formulate rules for and solve practical problems involving basic operations (addition, subtraction, multiplication, and division) with integers.				
RC 2	7.6	The student will use proportions to solve practical problems, which may include scale drawings, that contain rational numbers (whole numbers, fractions, and decimals), and percents.				
RC 3	7.7	The student, given appropriate dimensions, will a) estimate and find the area of polygons by subdividing them into rectangles and right triangles; and b) apply perimeter and area formulas in practical situations.				
RC 3	7.8	The student will investigate and solve problems involving the volume and surface area of rectangular prisms and cylinders, using concrete materials and practical situations to develop formulas.				
RC 3	7.9	The student will compare and contrast the following quadrilaterals: parallelogram, rectangle, square, rhombus, and trapezoid. Deductive reasoning and inference will be used to classify quadrilaterals.				
RC 3	7.10	The student will identify and draw the following polygons: pentagon, hexagon, heptagon, octagon, nonagon, and decagon.				
RC 3	7.11	The student will determine if geometric figures – quadrilaterals and triangles – are similar and write proportions to express the relationships between corresponding parts of similar figures.				
RC 3	7.12	The student will identify and graph ordered pairs in the four quadrants of a coordinate plane.				
RC 3	7.13	The student, given a polygon in the coordinate plane, will represent transformations - rotation and translation - by graphing the coordinates of the vertices of the transformed polygon and sketching the resulting figure.				
RC 4	7.14	The student will investigate and describe the difference between the probability of an event found through simulation versus the theoretical probability of that same event.				
RC 4	7.15	The student will identify and describe the number of possible arrangements of several objects, using a tree diagram or the Fundamental (Basic) Counting Principle.				

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RC 4	7.16	The student will create and solve problems involving the measures of central tendency (mean, median, mode), and range of a set of data.				
RC 4	7.17	The student, given a problem situation, will collect, analyze, display, and interpret data, using a variety of graphical methods, including a) frequency distributions; b) line plots; c) histograms; d) stem-and-leaf plots; e) box-and-whisker plots; and f) scattergrams.				
RC 4	7.18	The student will make inference, conjectures, and predictions based on analysis of a set of data.				
RC 5	7.19	The student will represent, analyze, and generalize a variety of patterns, including arithmetic sequences and geometric sequences, with tables, graphs, rules, and words in order to investigate and describe functional relationships.				
RC 5	7.20	The student will write verbal expressions as algebraic expressions and sentences as equations.				
RC 5	7.21	The student will use the following algebraic terms appropriately: <i>equation</i> , <i>inequality</i> , and <i>expression</i> .				
RC 5	7.22	The student will a) solve one-step linear equations and inequalities in one variable with strategies involving inverse operations and integers, using concrete materials, pictorial representations, and paper and pencil: and b) solve practical problems requiring the solution of a one-step linear equation.				

Reporting Category Key

RC 1 Number and Number Sense

RC 2 Computation and Estimation

RC 3 Measurement and Geometry

RC 4 Probability and Statistics

RC 5 Patterns, Functions, and Algebra